

CONTROL DATA® 9760/9762 STORAGE MODULE DRIVES

CONTROL DATA
CORPORATION



CONTROL DATA Models 9760 and 9762 Storage Module Drives are random-access storage devices which use removable disk packs in performing information record and read operations. Model 9760 SMD uses the CDC® 9876 Disk Pack and has a capacity of 40 million bytes; Model 9762 SMD uses the CDC 9877 Disk Pack, providing an 80 million-byte capacity. Each disk pack contains five disks, three are used in recording and two serve as protective disks. Of the six recording surfaces provided by the three recording disks, data is stored on five surfaces; the sixth is used for servo head positioning.

The basic storage module drive consists of a spindle and associated drive motor; voice-coil head positioner and servo system; read/write, fault, and transmitter/receiver electronics; and an air filtration system.

Electro-mechanical options available for the 9760 and 9762 include:

- Power Supply
- Phase-locked Oscillator Data Separator
- NRZ and MFM Data Encoder
- Daisy-chaining
- Rack-mount Package
- Base Cabinet
- Data Rate of 2400 rpm, 6.45 MHz

SPECIFICATIONS

Recording Format/Capacity —

Capacity, Unsectored: 20,160 bytes per track
100,800 bytes per cylinder
40 x 10⁶ bytes per spindle (9760)
80 x 10⁶ bytes per spindle (9762)

Tracks Per Surface: 404, plus 7 spares (9760)
808, plus 14 spares (9762)

Processing Speed —

Data Transfer Rate: 1.2M bytes per second
806K bytes per second (optional)

Bite Rate: 9.67 MHz
6.45 MHz (optional)

Spindle Speed: 3600 rpm
2400 rpm (optional)

Accessing Time —

Full Stroke: 55 milliseconds (max.)
Average: 30 milliseconds
One Track: 10 milliseconds (max.)

Disk Pack —

Type: CDC 9876 (9760)
CDC 9877 (9762)

Number of Disks: 5 (3 recording, 2 protective)
Usable Surfaces: 6 (5 read/write, 1 servo)
Diameter: 14 inches
Coating: Magnetic oxide

Recording Heads —

Type: Self-loading, single gap, no erase
Total Number: 6 (5 read/write, 1 servo)
Read/Write Width: 0.004-inch, nominal (9760)
0.002-inch, nominal (9762)
Track Spacing: 0.0052-inch, nominal (9760)
0.0026-inch, nominal (9762)

Operator Controls —

Switch/Indicators: Start/stop
Fault
Indicator Only: Ready

Interface —

Transmitters and Receivers: Industry standard type
75110/75107, or equivalent,
are used to provide a
terminated, balanced
transmission system.

Power —

120 VAC, single phase, 60 Hz
208 VAC, single phase, 60 Hz
220 VAC, single phase, 50 Hz

Physical —

Height: 10 $\frac{1}{8}$ inches
Depth: 30 inches
Width: 17 inches
Weight: 85 pounds

Environmental —

Operating Temperature: 60°F to 90°F
Operating Humidity: 20% to 80% R.H.
Nonoperating Temp: minus 30°F to plus 150°F
Nonoperating Humidity: 5% to 95% R.H.

Specifications are subject to change without notice.

**CONTROL DATA SALES OFFICES ARE LOCATED IN PRINCIPAL CITIES THROUGHOUT THE WORLD
PERIPHERAL PRODUCTS SALES — BOX 0 — MINNEAPOLIS, MINNESOTA 55440
TELEPHONE: (612) 853-3535**